		1				RESSI	THE RESERVE THE PERSON NAMED IN COLUMN	1	ocnes	3
			MNEMONIC		NO X=N	MEM	DRY X=M	INDS	The state of the s	
FUNCTION	INSTRUCTION		COSE	749	CADE	TAY	1906	7A4	CODE	
	LOGICAL PRODUCT		LP*	9	020	n	021	n	0 2 2	
	LOGICAL SUM		15 X	0	030	n	031	11	032	
	LOAD A		10 *	0	100	u	101	21	102	
ARSTHMETIC	ADD TO 11		A 0 *	0	120	u		1	122	- KI
8	SUBTRACT FROM PI		58 *	0	130	u	131	n	132	EL P
LOGICAL.	STORE A.		STX			n	201	1	202	
	REPLACE ADD	1-4-13	RAM			u	221			free
	REPLACE ADD ONE	* 1	RAP	-		n	231			120
SHIFT	SHIFT ALEFT I BIT		SHA	0	001				The little	rin
	JUMP DERECT ZERO		ZJM			n	300			ez
TEST	" NON-EERO		NZM			21	301			1
9	" " POSTIEUE		PJM			n	302			12
JUMP	" " NEGATIVE		NJM			N	303			1 he
	" " LINCONDIIONAC		JMP			n	310			18
	ERROR STOP			0	000					14
SPECIAL	HACT		HLT	0	333					16
	CLEAR INTHRUPT LACKOUT		e I L	0	023	2		21		
MANIPOLATE ON	A TO AUX. ADDRESS REGISTER		ATI	1/		n	002			199
MANIPULATION	AUX, ADDRESS REGISTER TO A		ITA	20		n	003			o de la
	A TO BER		ATE			. 11	010			1 6
1	A TO BXR		ATX			n	011			1
INPUT	BERTO A		ETA			n	012			
8	INITIATE BOLLER INPUT		IBI			n	320			
QUI PUT	" PUTPUT		180			u	321			
	" NORMAC LNEAT		INP			N	322			
	" " OUTPUT		9 47	. 2		N	323			
	PUTPUT NO ADDRESS		QNA	0	330					
	INPUT TO A		INA	0	332					
	EXPERMAL FUNCTION		EXF	0						
	PATTATE DOFFER ENDET " PUTPUT " PUTPUT " PUTPUT " PUTPUT " PUTPUT " PUTPUT " PUNCTION CCEAR BUFFER CONTROLS		IBI IBO INP ONA INA EXE CBC	9	013					
ASIMBI DI									Total -	

LOAD T/P VIA TYPEWRITER IN QUARTIC DIGITS

- 1) SET ONE TAB ON TYPEWRITER
- Z) LOAD PAPER TAPE PROGRAM

 A) FOR ZK MEMORY LOAD STARTING IN 030000

 B) FOR 4K MEMORY LOAD STARTING IN 330000, AND

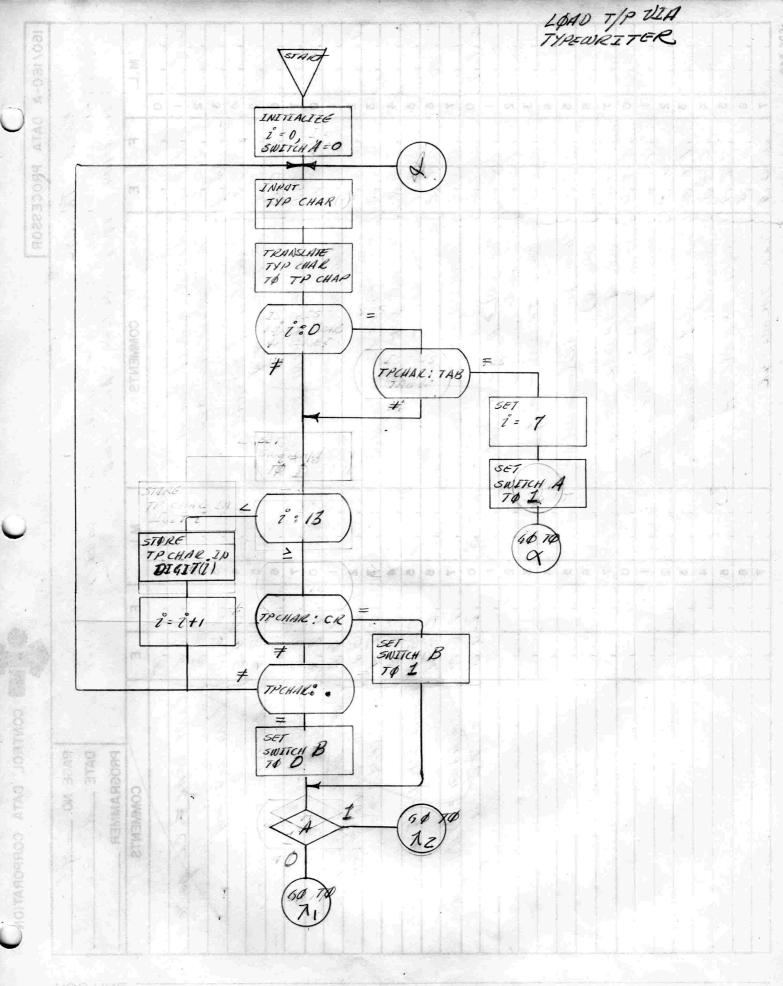
 ENTER 0033 INTO 33010Z
 - 3) RUN PROGRAM

 A) FOR ZK MEMORY START IN 030101

 B) FOR 4K MEMORY START IN 330101
 - 4) TO COAD DIA TYPEWRITER

 A) RUN
 - B) TYPE THE 6 DIGIT ML OF THE WORD TO BE
 - C) TAB
 - D) TYPE THE 4 DIGIT WORD TO BE LOADED
 - E) CARRIAGE RETURN THIS CAUSES THE WORD TO BE LOADED INTO THE ML SPECIFIED.
 - F) FOR ANY FOLLOWING WORDS WHICH ARE TO BE
 LOAD IN SEQUENTIAL ML'S REPEAT STEP 4-C, D

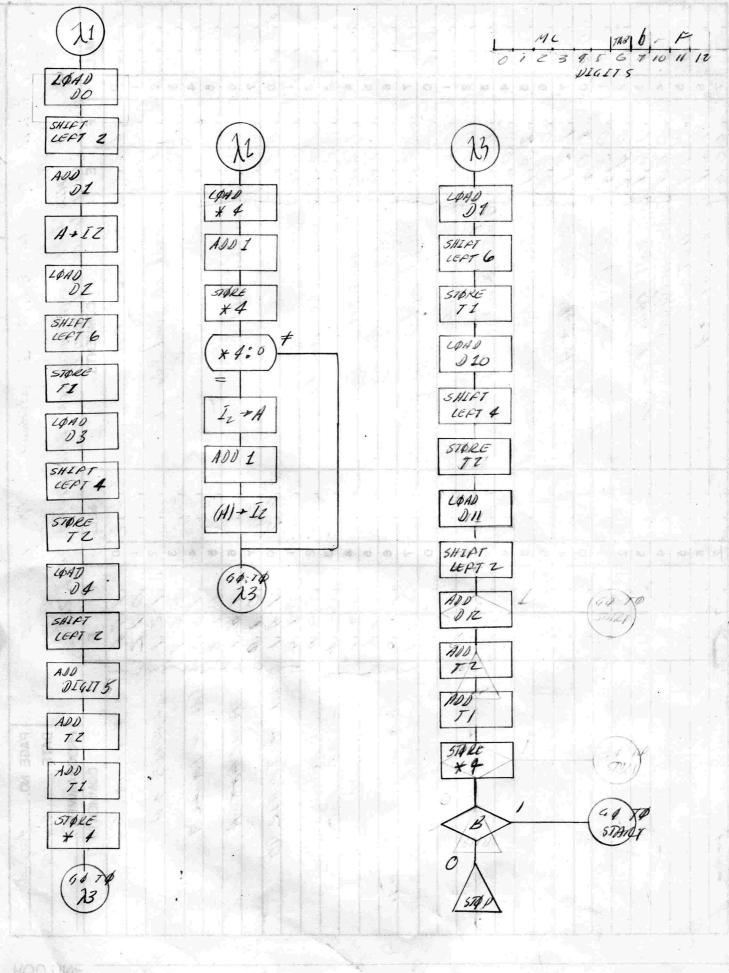
 AND E
 - G) FOR FOLLOWING WORDS WHICH WILL BREAK THE SEQUENCE OF ML'S PERFORM 4-8,C,DANDE
- 5) END OF LOADING IS ACCOMPLISHED WHEN A PERIODE IS TYPED IN THE PLACE OF A CARRIAGE RETURN. THE CONSOLE WILL DISPLAY 0333 IN A, AND 033003 OR 333003 IN P.
- 6) ERRORS IN TYPING MAY BE CORRECTED BY SPACING OR TYPING CHARACTERS TO THE CARRIAGE RETURN SPACE DO A CARRIAGE RETURN AND PERFORMENG STEPS 4-8, C, J, AND E.



ROUTIME

PERJORMAN

P.HOL



PROGRAM

HV CH

page 1 MC 230000 TEMP I TEMP Z SWITCH a SOUTTCH 001 TA CHAR COUNT DIGLT 002 0030 0100 3-+ A 10100 20003 (A) - AAR 1 HART is the aux. address, Register aux 1002 01100100 initialize COUNT at -0-10000 1201 01200100 xet aurtel a to -0-10000 : 30002 0-1300100 initialize Me of first DIGIT to be street 1001 21201. 31103 02000331 10202 request TYP status 20200 status response - A 30332 02101301 10200 20331 30202 4 request TYP input.

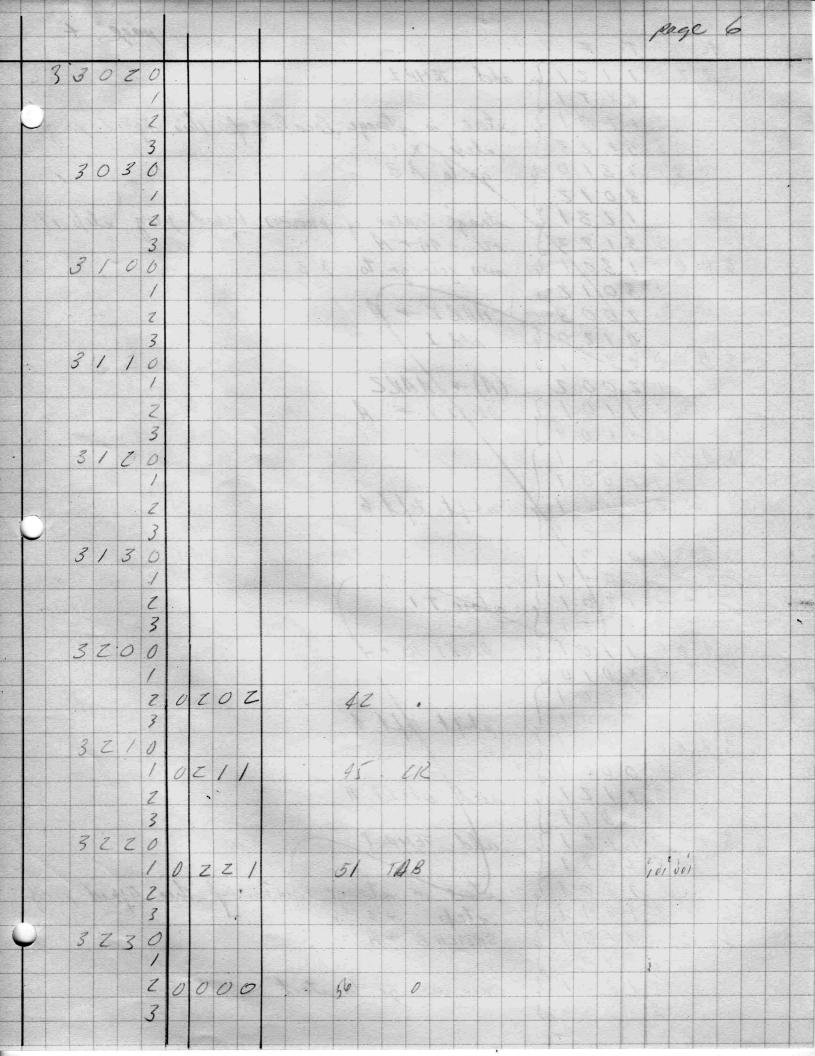
page z 02200020 TYPWRTE CHAR-DA

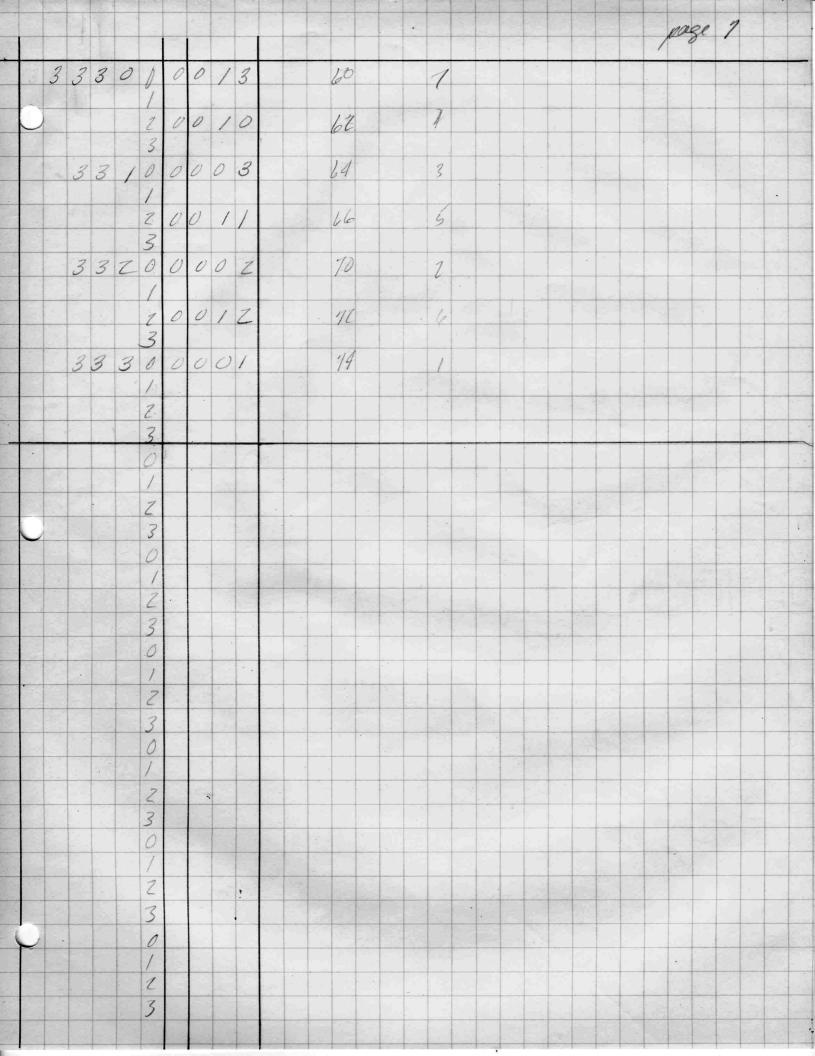
zero go 60 X y this is redundant 21300 30200 add He of first entry of TXP CHAR - TP CHAR Vranslation table store operand of translation instruction 023.00120 13000 1201 30301 03001101 translation & A 3 3 3 3 212014 A) + IP CHAR 30010 03101101 COUNT + A 21301 um seros go to check for end of met. 03201101 TP CHAR - A 10010. A - 51/2 (MS) 0221 um zero go to 3 check for end of wat. 03301301 11030 20100 1 + A COUNT = 1 10001221 30013 set aperand of sitere in althropsiale DIGIT 10101221 0103 set switch a to I 201.00 0001 01/01/ 10201201 0002 go to d 1310 020.0 A-13/8+A 10300130 0023 luce (cour =13) check last TP CAAC of typed 1302

TPCHAR -A 11001101 10010 3 3 3 3 3 (A) - appropriate DIGIT seplace add no to operand of also in appropriate 1101231 11103 COUNT +1 + CAUNT 21231 11201310 go to a 10200 TH CHAR - A 30010 A-45/2 (CK) 11300130 zero go to 8 set switch 6 to 1 2/300 1222 H- 95/8 + 3/8 = A-40/8 (.) 12000120 0003 2 1301 une year jo to & 12100100 set worter b to-0-10000 2/20/ 30003 ge to 5 surter a text 12201310 set switch b 6 1 30001 10003 awild a - A 11.01 non year go to 2Z 13001301 2121 02927 0 × A 1101 0012 shift left Z bits 13100001 0001 add DIGIT 1 11216 30013

pag + Al+ AARZ 313202002 11016 DEGIT Z 2A 20020 shift left 6 bits 2000000 store TEMPI 1201 0000 226273-4 31101 20100021 shift left 4 bit 20206001 ator TEMPZ 0001 DIGIT 4 - H 20300022 abift left & bits 10001 21000023 add 14415 add TEHPZ 20001 add TEMPI 21100000 typed may step * 4 11201 23.32 1310 21202201 * 4 +1 = * 4 1 1 2 3 1 2 3 2 non zero gar to 13 3 1301 213022 AARZ -> A A+1-> A 12003 201204 30001

page 5 2002 (A) - AARZ 13 DIGIT Y + A shift left 6 luts atore TEMPI DIGIT 10 -A shift left 4 but 2300000 elow TEMPZ 20 0001 DIGIT 11 -> H 23100033 shift left I bit 0001 0001 add 25657 12 add TEMPZ 0001 add TEMP 1 store instruction in Me determend in 12 or wartch b - A 30000003 un zero gonto initializa 1301 033.3 3010





JUMP TIP MEMORY DIA TYPEWRITER IN QUARTIC DIGITS I SET ONE TAB ON TYPEWRITER AND DERFORM CARRIAGE Z) LOAD PAPER TARE PROGRAM; A) FOR ZK MEMORY 1) FIRST WORD ADDRESS TAG INTO 03/300 " OPERAND 100 03/30/ 3) LAST " 17AG " 03/30Z 4) " " OPERAND " 03/308 B) FOR 4K HEMORY 1) FIRT WORD ANDRESS TAG INTO 331300 2) " " " OPERAND " 331301 3) LAST " " TAG " 33/30Z OPERAND " 33 1303 5) ENTER 0033 INTO 33/3/1 3) RUN PROGRAM A) FOR ZK MEMORY START IN 03/3/0 AND RUN 8) " " " 331310 " 4) END OF DUMP IS INDICATED WHEN THE CONSOLE

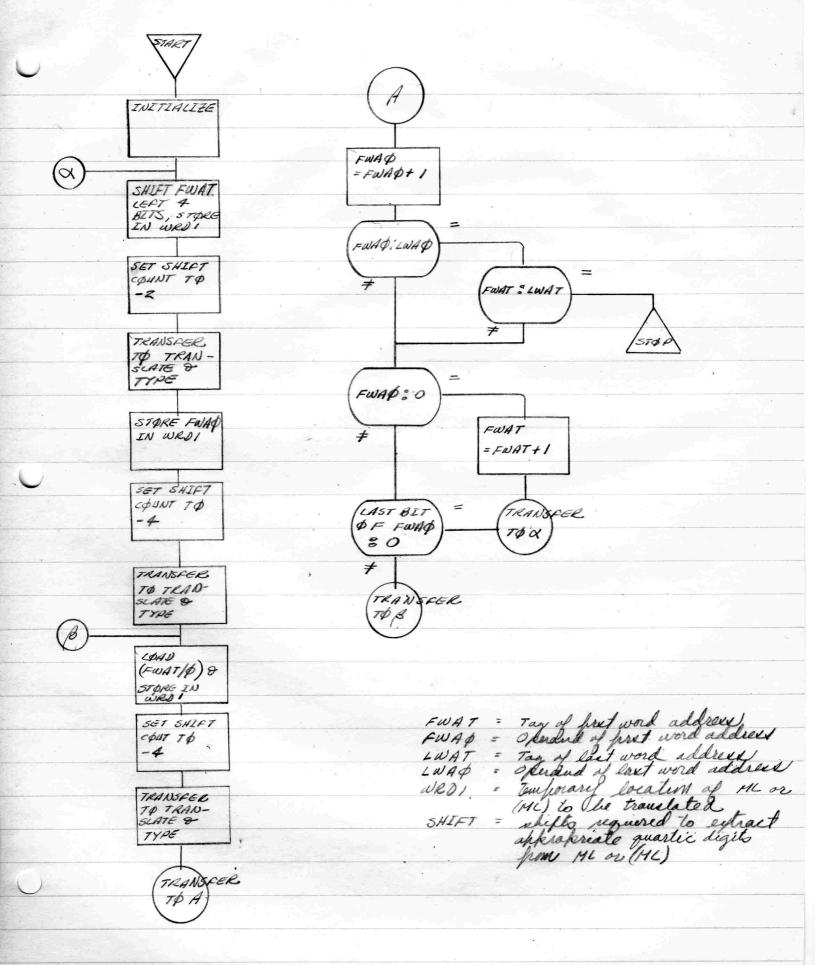
DISPLAYS 0333 IN A, AND 033130 OR 333130 IN P

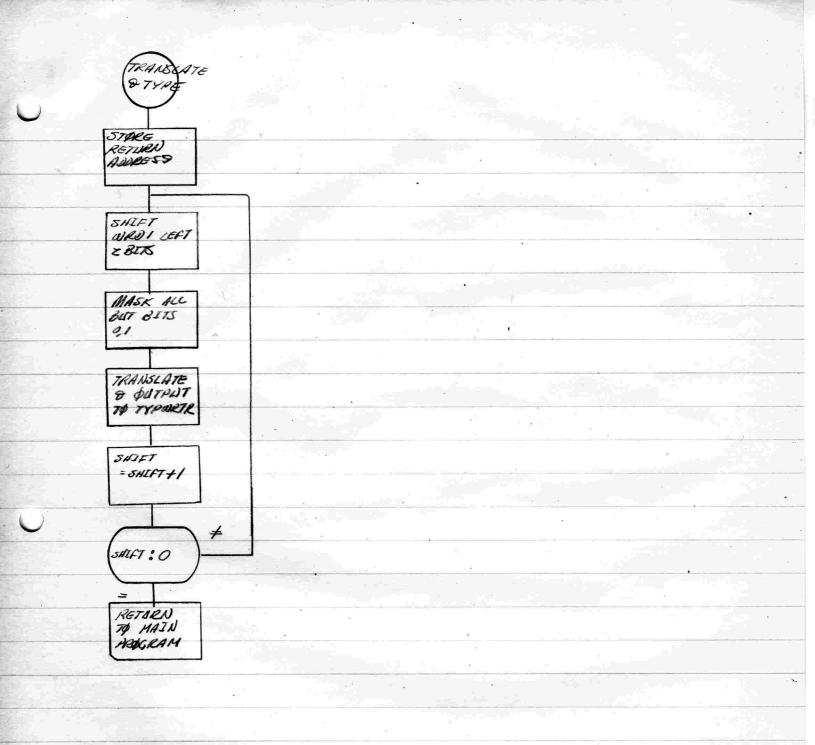
1) TYPING WILL BE CONTINUOUS THERE FORE CONTINUOUS FORM PAPER SHOULD BE USED IN THE TYPEWRITER OR THE TELEPROGRAMER MAST BE TAKEN OUT OF RUN AT THE BOTTUM OF SHEET AND A NEW SHEET INSERTED AND THE TELEPROGRAMER PLACED IN RUN.

ML	(MC)
031310	0100
	0003
	1002
	1101
031320	1300
	0001
	0001
	0001
031330	0001
	1201
	1233
	0100
032000	3331
	1201
	1232
	0100
032010	2013
	1310
	3131
	1101
032020	1301
	1201
	1233
	0100
032030	3323
	1201
	1232
	0100

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加壓幾度協定			page constants
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	3		
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	2		
	3		
	12100232	-0-	
	10330	1	
	3 0 3 1 0		
-	30310	3	
14416 0	1220 1		
10/61	1 - 1		
	2		
· ·	3		
	1230		
	3	SHFT WARD FWAT FWAD LWAT LWAD	
	3	WAKD	
	1300	FWAT	
	/	FWAD	
	7	LWAT	
	3	LUNG	

page 1310 LON 0 00 0 3 0 ATI Z LDM 01 132 FWAT 300 001 SHA 0 133 00 201 STM 233 WORD 0100 LON 2000 1201 1232 0100 2013 1310 3131 STM SHFT 2010 10N *1 JMP TYPE LOM * / 10 130 FWAD 202 STM WORD 20303323 11201 21232 30100 STM SHET

page = 2103 00 * 2 3131 JMP TYPE 100 +2 221 TAB 321 STH * 11 LDN 33Z STH 01 232 SHFT LON *3 2201 2130 201 STM RTRN 2200 JMP AGAIN 3 3 23 LOM 10 X3 FWAT 00 0 ATI 0 221 FWAP 20 STM 200 2220 LOM XX 12 3 STM word 33

									(4	
									4-1-1		
				18:				Jag	13		
	22300100	LDN									
	13323										
	1/201	STM									
	31/232	SHFT	100								
	123000100	LON								* .	
	12310	*5									
	2 1 8 1 0	JMP TYPE					1 1/2				
	33131	TYPE	,							Е.	
X5	23100100	CR									
	10211	CR				158					
	21201	STH									
	21201	* 11									
	23200100	LON									
	13332										
	2/20/	STH									
	3/232	SHFT						****			
		40N								a a R	
	23300100 1300Z	11/			•						
	2/201	STM									
	3 3 3 3 3	RTRN									
	30001810	JMP									
	13233	AGAIN									
*6	2/23/	RAP			3 x85	1/2					
	3 1301	FWAD				DATE:			,		14.024
	30101131	58M									
	1/303	LWAD		1.9							
HAR	2/30/	NZM									
	2 1301 3 3 0 3 Z	THEN RIEN JMP AGMIN RAP FWHP SBM LWAP NEM * 1									

mage 4 302 LDM 0 FWAT 0 SBM LWAT 2 0 303 ZJM END 30 LOM FWAP ZJM. 0 NZM 3 JPM RAP 2 3 X8 300 TMP 0 END 3 3 TYPE STM RTRN ×9 LDM 3 WARD 320 SHA SHA 20

		全会是基础	
			page 5
		HERELE	
	3210	1233 Wg	PN
		0020 1.	ON .
	2	0003	
	3	0120 A	DN BE TH
	. 3220	1210 7	86
		1201 5	THE STATE OF THE S
	2	3280 *	10
7 0	3		DM
* 10	3230	0000	
	1	1201 5	TM
	2	332L X	XIF
AGAIN	3		
	3300	THE RESERVE AND LABOR.	4 The STATUS
	. /	0200 EN	
	2	033Z IN	
1	3	1301 NE	SAIN
	3310	3 2 3 3 A	
7-7-1			YF T/W GUTPIST
	3	0202	4 T/W \$UTPIST
	3320	0220 0	NA
* //	3 3 2 0	0330 P, 0000 1230 RA 1232 SH 1801 NA	
7 11	7	1730 0	
	3	1777 51	ICT I I I I I I I I I I I I I I I I I I
	3 3 3 0	1301 1/	ZN
	0 9 3 0	2122 4	IP IFT ZM PMP
	2	1210 7	MO
RTEN	2 3	3133 + 1310 TI	3002
MILN	0 3	0000	

	STORAGE OF	BUDCK	10 BE	TRANSMITTED
DEC.	(ML)		Ø CTHE	QUARTIC
000	SYNCH 1		000	
	SYNCH Z	,	1	
Z	TYPE		Z	
3	COUNT		3	
1			1	
5			5.	
6		17.5	6	
7			1	
8.	CHARACTER [1]		λ_{Q}	
9	" [2]		11	
10	., [3]		. 12	
//				
12				
13				
14				
16				
16				
11				
		•		
· •				
243				
244,	*	7-7-7		1404
295	121	4		
246		-		
211,	CHARACTER 240		364	
248	EDC1		310	
249	" 2		311	
250	, , ,		372	
251	1 4		373	
152	# j		. 344	
U53	16		345	
754.	" 1		316	
255	u 8		311	
256				

SEND & RECU RASITNES & PROPERTY TONES OF THE SENDENCES

			10		/	السا				
0	ØCT.	14		10			GLAR	TIC		
5448¢C	MC	7	F/E	MN	EMONEC	1	FIG	HL	t	
SEND	0000	0	20	0	LON			000000	2	for storage block Mi's
	/	0	00		0:11			01		for storage block MI's
	2	2	02	2	ATI.			02	1	
	3	0	20	0	200			03	2	mitialize to out
	1	0	00	8	0			10		sut fire Character from
	5	1	41	1	STH			. 11	3	storage block
	6	0	17		XI			12		
	7	0	15:	0	EXF			15	3	land character from
41	10	0	36		036			1 20		(kut DCS in send world
	11	0	01	1	001,			1 21		alare pharmeter in
	12		20	0	LDN			22	2	Mand ACHILL TELECO)
47	13	0	00	1	000			23	1 1	set B = 0
	11	1	41	1	57M			30	3	(albeited (e) when
	15	12		13	BOLD			31		
71	16	2	21	Z	LDM			32	3	((CHARACTERSCI) + A
XI	17.	0	00		000			33		J wild
	10	1	41	1	STH			000100	3	store in aperand of D
* 4 2	4	0	23	1	XZ)			01		J PNA
	17	0	14	0	PNA!			02	Z	& output one und
X2	13	0		10	0.00			03	-) includering
	24	0	01		SHA	-		10	1	I tell at with
*2	25	1		0	SHA			11	/	
	16	0	01	0	,	-		12	/	
	21		01	0	SHA			13	1	shift works left Thit
	30	0	01	0	SHA			.20	1	(saya shift wold right
	31	0	01	0				13	1	The fond of the
	32	0			SHA	-		22	1	I right shift I
	33	/	41	1	514			23	5	I slove in appeared of ANH
	31	0	23	16	* 5	-		30		instr.
	35	/	51	1	RAD			31.	4	4 whereast B by
	36	1	45	1	BU			32	-	
	31	10	34	10	SBN			33	12	to the small the got and a
<u> </u>)
				-					-	
				-		-				
				+						

PAGE: 2

	det	11				1	2112	7.0	Ė	
	фет	HC L	-/-		1 1100		PHAR			
SYMBOL	MC	7	F/E	MA	VEHONIC	7	FIE	MC	t	
			10		8			000100		subtract 8 from B
Par	41		63	/	NJM			01		& B < 8 go to output shipted
MENTSOND	97	0	22		XZ-11.			02	1 4	wees
13	13	1	51		RAP					e werease operand of load
	11	0	17		*1 8		2000	. 10	1	CHARACTER instruction
0/2	95	1	64	1	ZJH	-		11	2	CHARACTER ML = 0 go
			63		RCV			12) to receive nontine (RCV)
	17	Z	85	12	SBM			13	3	I lood CHEACTER wells, was to be
	50			-	CAUNT			20		
	5/	1	63	/	NJH	-		21	2	more was to be sent go to
	52	0	16		*1-1			22		load CHARACTER
	53		21	1	LOM			23	3	Loud whow of frake
	:54		10	/	248	-		30		set aproud of load (HALAITE
	55	1	41	1	514			31	3	wets to cold (Error Votection
	36	- 198	17	14	*1	-		37	1 1	(calo)
	37	1	64	/	JMP	-		33	2	go to lood CHALACER
	60	0	16	16	¥1-1	-		000300		portuo 18 podent?
	61	1	64	1/	JHP :			01	2	4 operance of the deposited
1.4	67		16		¥Z-Z			. 02		mile = 218 go 6 82-2
RCU 1/3	63	0	120	0	LON			03	2	
7,3	60	0	00	1	0/			10		
/*	65	1	41	1	STH			11	3	put o in ALPHA, BETA
	66		146		WORD			12		& when
<i>y</i>	67	1	41	1	5714			13	3	
district Con-	40	12	19	1	ALPHA	-		20		
	71	1/	141	1	STM			21	3	
	77	12	50		BETA			22		
	73	0		0	EXF			23	3	
50/33	71	0	36	1	864			30		set DCV in Receive mode
IDLE .	195	0	OZ	0	02			31		
IDLE	16	0	13	10	CIL:			32	1	Clear interrupt look out
I Hanton	179	1/	OZ	./	ATT			33	1 -	Lille lap

	ØCTH.	1				QUAR	ETIC		
SYHBOL	MC.	7	FIE	MNEMONIC	T	F/E.	MC	1	
0 1	0100	1	64	1 JMP			001000	2	y colle loop
	01	1 1	1	TOLE			01	ì	
d	02	1	21	1 LDH			02	3	
X	03	Z	49	O ALPHA			03		
	04	1	60	1 EVM			10	2	
	05	1	17	E & D .		1.4	11		
	06	0	34	O SBN			12	Z	go to various RCV
	07	0	01	(1.//			13		soutures depending in
	1.0		60	1 ZJM			20	Z	value of ALDHA
	11	-	31	Z 97.4			21		/
	11	1000	34	O SBNA			22	2	
	13		01	0100		-	73		
	14	_	60	1 ZJH			30	2	
	15		47	00Z/			3.1		
	16		17	O HLT			32	1)
90	17	0	1	O INA			33	Z	add uput bit to
	20	/	51	1 RAD			001100	4	low order of word
	21	Z	/	WORD			01		
92.	22	Z		25BM			02	3	of word = SYNCH go to
	23		00	SYNCH			03		set ALPHA 6 I
	21	1	60	IZJM			10	2	
	75	1	37	SETXI			11		
	76	/	2/	1 LDM			12	3	
¥	24	Z	46	WORD			13		
	30	0	10	O LPN			20	Z	,
	31	1/2	77	177/8			11		of word + SYNCH put serve
	32	0	01	O SHH			22	/	ashigh order of wors o ship left I, and go to ille routine.
	33	/	41	1 5TH			- 23	3	left 1, and go to ille
	31	2	16	WORD			31		routine.
	35	/	64	1 JMP			31	Z	
	36	0		IDLE			32)
d//	39	0	20	010N			33	2	
0									

U	\$CTA	-				QDAL1	TC		
SYMBOL	MC	1	FIE	MNEMORIC	7	FE	MC	£	
	0140	0	00	0			00 1200		
	41	1	41	15TM			01	3	put-0-in BO WARD
	92	Z	45	BANA			06		I dle voitens
	93	1	41.	1511			03	3	B less than a out next
	. 44	Z	46	WORD			10		I x tipled and
Y/	4	1	55	1 RAD			11	4	Last ALPHA to Zoto
	46	2	14	ACOBA			12		(Migrest & Control in work in
XZ	14	0	16	O INA	149		13	Z	I input a bit and
	50	1	51	1 RAM			10	4	
	67	Z	46	WORD			21		of word
	52	1	55	1 RAD			22	4	& increment & by I
	53		45	B			23		I in B B fat Touts have
	69	0	34	OSBN			30	2	of B= 8 (ie Thit have been
	55	0		18			31		added worst go to s
	56	1	62	IPJM			32	2	forting (to best hard that
U	57	1	67	1000			33		have species in part) which t
	60	1	21	1 LOM			00 13 00	3	if B = 8 (ie less than Thit
	61	2	16	WORD			01		have been added word)
	62	0	01	OSHA			02	1	slift word left no but
	63	1	11	15714			03	3	gald go to Idle soutine
	64	Z	16	O WORD			. 10		Jugo 6 state WEAUTER
	45		64	ITMP			//	Z	
A dividual	66	0	16	IDLE			12		2
10 (4)	67	1	21	1 LOM -			13	3	
29	10	1	50	BETA			20		Letal routing
	11/		35	25BM			21	3.	Seld routing
	92	0	00	SYNCH			22		Part Des in Hat
Chiral Control	73	1	60	1 3714			23	2	Cin 30
	79	2	37	SETXI			30		2
	15	1	55	1 RAP			31	4	Le ret BETH LO !
	16	1	50	BETA		2	.32		
	19	0	20	· O LONA			33	2.	V
				13047	1				unit and
						14 00	The state of the s		
		1				1100		1	내 내용 기능하는데 하십시다는 보고 그리고 있다면 하나 이 보다면 하다.

SEND & RCT RODITINES
PAGE: 5

0	\$CT.	16					QU.	ARTIC		
SYMBAL	ML	7	Fle	MN	ENGNIC	7	FE	ML	t	1
	0200	0	OZ	1	ZTM			002000		y set operand of store
	01	1	41	1	STM	1		01	3	word of store works metructions to
Diet !	02	2	06	4	*51			.02		I initial value.
31	03	1	21	1	IDM/	3		0.3	3	
	04	2	16	1	WORD			10	-	store word in accent
	05	1/	41	1	STM			1.1	3	7/P block,
45	06	0	00	1/4	000			12		
	07	1	55	1	RAD	1		13	1	I increment operand of alos
	10	12	06		X5/			20		word instruction by I
	11	1	60	1	ZJM	12		21	2	of operand = 0 (is block is
10	12		-	14	ZJM CHICHLATE PCV FDC			22) full) go to calculate EDC
	13		34	0	SBN	13	- 5-7%.	23	2	
	11	0	08	12	8114			30		of operand & (it header has
75	11	1/	63	1	NJM			3/	2	not been impleted yet) go
	16	12	37	1/	SETOL			32) to seld routine
	17		12/	1	LDM			33	13	
	20		06	1/	*5M		Since 1	002100		of operand & but & COUNT
	71	12	35	12	SBM.			01	13	(is block of wads to be input
	77			0	COUNT			02		has not been compled yet)
	23	1	63	1	NJM			03	2	go to set at poetuit.
	79	2	37		SETONI			10		
	71	1	21	1/	LDM		,	11	3	
	26		06	1	*51			12		if operand 20001 and 2248
\$6	27	1	34	0	SBN.			13	12	(ill EDE s are being input)
	30	-	10	1	248.			20		go to let &1 poutine
	31	1	162	1	RIM			15	12	- souture
	32	12	3.7		SETAI			32		K
	33	100	1	0	LDN			23	12	if operand = court but 1298
	31	3	1		298			30	1	(il NARDS have been input
	35	1	41	1	5714			3/	3	but pEDE's remain to men
	36		06		*51.			32	-	le uput) set oberand
SEIdl	37	0	20	.0	2010			33	12	16 248 8 go to Lefal
0										
									-	
									-	

SEND & RCV ROUTES
PAGE: 6

U	DCT,	IC					QUAI	etic			
5/1/800	HL	7	FIE	141	VEMPNIC	7	1/5	MC	ć	4	
	0240	0	01		1/01			002200			and their the
Se741	41	1	41	1	57H			01	3	7	set ACPHA to I and
	12	2	41		ACPHA			02			go to Idle routines
	43	1	64	1	JMP			03	2		
	44	0	16	- 4	1015			10		1	
B	1.45	0			B			11			
NORD	16	0	00		WOLD.			12			
ALPHA	47	0	00		ACPHA			/3			
BETA	60	0	00		BETA			10		1	
6,11	51	0	20	- 1	week .			7/	7		
	52	10	x7		+1			22		ļ.,	
	. 53	1	24	1				23			
	51		55		137700			30		1	
	55							31			
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U	51							33			
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	61							01			
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	67		gb .					13			
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	11							11			
	12	-	2	-				17			
	13	-						13			
	74							30		<u> </u>	
	1/1							31		<u> </u>	
	16			1				32		-	
	77			-				33			
											•
		100									